```
   1 ccgcatccta gccgccgact cacacaaggc aggtggggtga ggaaatccag agttgccatg
  61 gagaaaattc cagtgtcagc attcttgctc cttgtggccc tctcctacac tctggccaga
 121 gataccacag tcaaacctgg agccaaaaag gacacaaagg actctcgacc caaactgccc
 181 cagaccctct ccagaggttg gggtgaccaa ctcatctgga ctcagacata tgaagaagct
 241 ctatataaat ccaagacaag caacaaaccc ttgatgatta ttcatcactt ggatgagtgc
 301 ccacacagtc aagctttaaa gaaagtgttt gctgaaaata aagaaatcca gaaattggca
 361 gagcagtttg tcctcctcaa tctggtttat gaaacaactg acaaacacct ttctcctgat
 421 ggccagtatg tccccaggat tatgtttgtt gacccatctc tgacagttag agccgatatc
 481 actggaagat attcaaatcg tctctatgct tacgaacctg cagatacagc tctgttgctt
 541 gacaacatga agaaagctct caagttgctg aagactgaat tgtaaagaaa aaaaatctcc
 601 aagcccttct gtctgtcagg ccttgagact tgaaaccaga agaagtgtga gaagactggc
 661 tagtgtggaa gcatagtgaa cacactgatt aggttatggt ttaatgttac aacaactatt
 721 ttttaagaaa aacaagtttt agaaatttgg tttcaagtgt acatgtgtga aaacaatatt
 781 gtatactacc atagtgagcc atgatttct aaaaaaaaaa ataaatgttt tggggggtgtt
 841 ctgttttctc caacttggtc tttcacagtg gttcgtttac caaataggat taaacacaca
 901 caaaatgctc aaggaaggga caagacaaaa ccaaaactag ttcaaatgat gaagaccaaa
 961 gaccaagtta tcatctcacc acaccacagg ttctcactag atgactgtaa gtagacacga
1021 gcttaatcaa cagaagtatc aagccatgtg ctttagcata aaagaatatt tagaaaaaca
1081 tcccaagaaa atcacatcac tacctagagt caactctggc caggaactct aaggtacaca
1141 ctttcattta gtaattaaat tttagtcaga ttttgcccaa cctaatgctc tcagggaaag
1201 cctctggcaa gtagctttct ccttcagagg tctaatttag tagaaaggtc atccaaagaa
1261 catctgcact cctgaacaca ccctgaagaa atcctgggaa ttgaccttgt aatcgatttg
1321 tctgtcaagg tcctaaagta ctggagtgaa ataaattcag ccaacatgtg actaattgga
1381 agaagagcaa agggtggtga cgtgttgatg aggcagatgg agatcagagg ttactagggt
1441 ttaggaaacg tgaaaggctg tggcatcagg gtaggggagc attctgccta acagaaatta
1501 gaattgtgtg ttaatgtctt cactctatac ttaatctcac attcattaat atatggaatt
1561 cctctactgc ccagcccctc ctgatttctt tggcccctgg actatggtgc tgtatataat
1621 gctttgcagt atctgttgct tgtcttgatt aacttttttg gataaaacct tttttgaaca
1681 gaaaaaaaaa aaaaaaaaa a
```

FIG. 1

```
  1 MEKIPVSAFLLLVALSYTLARDTTVKPGAKKDTKDSRPKL
 41 PQTLSRGWGDQLIWTQTYEEALYKSKTSNKPLMIIHHLDE
 81 CPHSQALKKVFAENKEIQKLAEQFVLLNLVYETTDKHLSP
121 DGQYVPRIMFVDPSLTVRADITGRYSNRLYAYEPADTALL
161 LDNMKKALKLLKTEL
```

FIG. 2

```
  1 ggcaaccctt gcggctcaca caaagcagga gggtgggaag cccagatttg ccatggagaa
 61 attttcagtg tctgcaatcc tgcttcttgt ggccatttct ggtaccttgg ccaaagacac
121 cacagtcaaa tctggagcca aaaaggaccc aaaggactct cggcccaaac tacctcagac
181 actctccaga ggttggggcg atcagctcat ctggactcag acatacgaag aagctttata
241 cagatccaag acaagcaaca gaccttgat ggtcattcat cacttggacg aatgcccaca
301 cagtcaagcc ttaaagaaag tgtttgctga acataaagaa atccagaaat tggcagagca
361 gtttgttctc ctcaacctgg tctatgaaac aaccgacaag cacctttctc ctgatggcca
421 gtacgtcccc agaattgtgt ttgtagaccc atccctgacg gtgagggcag acatcactgg
481 acgatactca aaccggctct acgcttatga accttctgac acagctttgt tgtacgacaa
541 catgaagaaa gctctcaagc tgctaaagac agaattgtag agctaactgc gcaccgggtc
601 aggagaccag aaggcagaag cactgtggac ttgcagatta cagtacagtt taatgttaca
661 acagatatat tttttaaaca cccacaggtg gggaaacaat attattatct actacagtga
721 agcatgattt tctagaaaat aaagtcttgt gagaactcca aaaaaaaaa aaaaaaaaa
```

FIG. 3

MEKFSVSAILLLLVAISGTLAKDTTVKSGAKKDPKDSRPKLPQTLSRGWGDQLIWTQTYEEALYRS
KTSNRPLMVIHHLDECPHSQALKKVFAEHKEIQKLAEQFVLLNLVYETTDKHLSPDGQYVPRIVF
VDPSLTVRADITGRYSNRLYAYEPSDTALLYDNMKKALKLLKTEL

FIG. 4

```
  1 cggcaaccct tgcggctcac acaaagcagg agggaggaga gctcagattt gccatggaga
 61 aattttcagt ctcggcaatc ctgcttcttg tggccatctc tggtactctg gccaaagaca
121 ccacagtcaa atctggatcc aaaaaggacc caaaggactc tcgacccaaa ctaccccaga
181 ccctgtccag aggttgggga gatcagctca tctggactca gacttacgaa gaagccttat
241 acaaatccaa gacaagcaac agacccttga tggtcattca tcacttggac gaatgcccgc
301 acagtcaagc tttaaagaaa gtgtttgctg aaaataagga gatccagaaa ttggcagagc
361 agtttgttct cctcaacttg atctatgaaa caactgacaa gcacctttct cctgatggcc
421 agtacgtccc cagaattgtg tttgtggacc cttccctgac ggtgagggca gacatcaccg
481 gaagatactc aaaccgtctc tacgcttacg aaccttctga cacagctctg ctgcacgaca
541 acatgaagaa agctctcaag ttgctgaaga cagagttgta gagtcaactg tacagtgcct
601 caggagccgg gaaggcagaa gcactgtgga cctgccgatg acattacagt ttaatgttac
661 aacaaatgta tttttaaac acccacgtgt ggggaaacaa tattattatc tactacagac
721 acatgatttt ctagaaaata aagtcttgtg agaactcc
```

FIG. 5

MEKFSVSAILLLVAISGTLAKDTTVKSGSKKDPKDSRPKLPQTLSRGWGDQLIWTQTYEEALYKS
KTSNRPLMVIHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLIYETTDKHLSPDGQYVPRIVF
VDPSLTVRADITGRYSNRLYAYEPSDTALLHDNMKKALKLLKTEL

FIG. 6

```
   1   AACCCTAGTT   ACCTCACACC   AAGACAGATA   TGCCAAAGAT   TCCACAGCCT

  51   CAATAGCATG   TGTAGGATAT   CTGCTAATAA   TTACCTCCTC   CTTGCCATCC

 101   GTCAGCCACT   ATGACAAACT   CTGGGTTTTT   CCTGACATGA   GATTAGGCAC

 151   ATGAGTATAG   AATAATTATA   TCACTATAAT   TAACTGTAAC   AAATCAAAGA

 201   CTTTTTTTTT   TAAGTTCCGG   AGTATGTGTG   TAGGATGTGC   AGGTTTGTTC

 251   CATCAGTAAA   CGTGTGCCAT   GGTGGTTTGC   TGCACTGATC   AACCCAACAA

 301   CTAGGTCTTA   AGCCAGCCTG   CATTAGCTAC   TTTTATCAAA   TGTTATGGGC

 351   TGAATTGTGT   CCCCCCCAAA   AATTCATATG   TTGAAGTCTT   AATCCCCAGG

 401   ACTTCAGAAT   AGGATCTTTA   CAGAGGTAAT   TAAGTTAAAG   TAGGTCATTA

 451   GGCAGGACCC   AAATACAATA   TGACTGGTGT   CCTTATAAGA   AAAGGAAAAA

 501   AATGACACAG   ACAGGTACAG   AGGGAAAAAC   CATGTGGCAA   TACAGGGAAA

 551   AGTCATTTAA   TATTCAAAAT   GGTCCCATAT   GTTAATATTA   TCCCCATATT

 601   ATAGATGGAG   AAACTGAAGT   TTTGGGGATG   TTAAATGAGA   TCTCAGATCA

 651   TCCTATGAGC   AAGCACCAGG   ATGCAGGATT   CAGATGGGAA   TCTCGTGACT

 701   CCAAATCCCA   TCCACTTGTT   ACTTTCAGTG   GATAAGGGAC   TGAAGGACTT

 751   TGGTCCCAAC   TCTGCCCTAA   ACTAGTTGTG   AGACCTTCAA   AAAGTTATGA

 801   ATTTTTTGCC   ATCTTCATTT   ATTCATCTGT   AAAATGAAAG   ACTGGAATTG

 851   AATATTACAA   GGGTCTATCT   AAGGGCCTGC   TAGTTTTAAG   AATTTTGCTC

 901   AAATCATCGT   TTTCAAACTC   CTGAAGAAAT   TACTTCTATA   AATTCATTAG

 951   AATTGAAAGG   AAATTCAGTA   TTTGGAGAAT   CACGATTTTG   CCCACAGAAT

1001   TCAAGGATTT   ATTGGAAAAA   TATACATACT   TGCAAATGTT   TTTGAAATAT

1051   TATGACCTTA   ACTCATTTTA   AAAAGTCATT   TATATAGGGC   TTGCATCCCA

1101   TTCATTAACT   TTCTGTTGTT   AACATTTTCT   TCATTCTGAG   CTTTTAAAGA

1151   CTGCACACAA   CTTCATGAAC   AAAATACAGG   ATTAAAATTT   TCTGACAGAA

1201   AATTTAAATT   CCAGTTTTAA   AATCTTCAGG   GAGTAATTAA   ATGGTCTTGA

1251   GGGGAAAAAA   AACTTGGTTG   CAGACCTTAG   TTTTTAGGTC   TGAGAAAATG
```

```
1301   GAGTAAATGG   CTTCCTGCTT   GCGTGGCAGG   AAAGTTTGCC   TTTAAATAAG

1351   AGATTATCTG   TGAAATACCT   TTGAACTCTG   TGGAGGGAAG   TTGCTGCATA

1401   CATTCAATGG   CAAGGCATTT   ATTACAAGCT   CACGATATTA   GGCTGTTTTT

1451   TTTTTTTTTT   TTGCCAATAC   TTCCTCAGTT   TTGAAAAATT   ACGTGGGTTA

1501   CTTGATTTGT   ATTTTTTTTC   ATACCTGTAG   AAGTTAGGGT   GCATTGTTTT

1551   GACAGGAGCA   GGGAAGTATT   GTAGAAAATA   ATTTTTATCA   TAATGGAGTA

1601   TGGCAGGTTA   TATGACTGCG   AGGATCAGAA   TTGTGAATCA   TCTCTTGTGT

1651   GTCTTCAAGT   AAATAAAGGC   AATCTGCCCA   CGGAGCAGAA   AAAAAATCTA

1701   CAAACTACAA   ACTCTGTCCA   ATCATGTAAA   GACAAATCAG   CCTTCAGGCA

1751   AATCAAATGT   CTTCATTCAA   AGTCTACCTG   GATTTGGCAC   TCTGCCCATC

1801   GTTTCAAAAC   CTCTTAACAA   TACGTTTCAC   AAATAGTTAA   AAACATGCAT

1851   ACTGAAAAGC   ATACTTTTGC   AATGTTATTT   TTAAAAACAA   GGAACTCTTT

1901   AACCCAGGGA   AGATAATCAC   TTGGGGAAAG   GAAGGTTCGT   TTCTGAGTTA

1951   GCAACAAGTA   AATGCAGCAC   TGGTGGGTGG   GATTGAGGTG   TGCCCTGGTG

2001   CATAAATAGA   GACTCAGCTG   TGCTGGCACA   CTCAGAAGCT   TGGACCGCAT
```

FIG. 7

```
   1  AAAGGTCTAG  AAAGAAACCT  TTTAAATGAG  TGAACTTTAC  CATACCTAGA

  51  AATGCTGTGG  GCTAGTGACT  CTTGAAATAA  CTCCATTTGC  TTATGCTTCT

 101  AAAAGGTCTA  CAGAGACCAT  TTTTTTAAAA  GATGATTGAT  TAAAAAAAAC

 151  TGATTTGAGG  TAAAAACCTT  AACTAGAATT  GCTCTCACAT  ATCTAAATAT

 201  CACTATTTAG  CCTTTAGTTC  TATTCAAACC  ATTATTTTAC  AGATTAGAAA

 251  CACCAAACAA  ACGATTAAGC  AAACAAAAAT  AGAACAGTCA  ATAGTTTTCT

 301  AAAGGCCCTA  CAATTAGTTG  AGGGCAGAGC  TAGGAGGAAA  GCCAGGGCTC

 351  TTCTACTCCA  CTATCTTAGG  CATTGGGAAA  TGGGTGGGAT  TTCGGGTCAA

 401  TTACAGTCAG  CATCCTGCTT  CCACACTCTG  GATGATGATA  TCAGAGGTGA

 451  CACTGAACAC  CCTGAAACTT  TAGTTTCCAC  GCCTGTAACA  GAGTTCCATG

 501  CAACAGTTCA  GAGCGACATA  GTCGTGAACA  TAGAGTGAAC  TGAGGAAGAG

 551  GAAGAGGCTT  GGGATGAACG  TAGGGTCCCT  GCTTCCACAG  GAACAGGACA

 601  GCCTGGGAGG  CTGAAGCATC  GGCGATTCAC  CTTCGCTCAA  TCCTGGAGGC

 651  TCCACACAGA  CCATTGATGT  GTCAGCAGCG  TTAGGTTCTT  CTCTTCTTGG

 701  CCTGTAGATG  AAGTCATTAT  GTGCCTGTGT  CTCTGACCTA  AGTTTCTTTC

 751  CTATGAGAAT  AACAGTCATA  TTAGATTAGA  ACCCAGTCTA  ATGACCTATT

 801  TCACTTACTT  TAAATTTCTT  ATTCATTTAT  TTCAATTACT  TTCATTTTAT

 851  TTACTTACTG  TGGTACTTAG  AATCAAATTC  AGAGCCTTGC  ACATACTTAA

 901  CAAATGCTTA  ATCTCTCTTT  AAGACCCTCT  CTCTGTGTAT  GATCATCTGA

 951  TGAGGTCCTG  GGAATTACAG  CACATGGATT  CCTTTAAAAC  ACATCTCAAC

1001  CATACCTCTT  GGTAATTAAA  AACATCTCTA  ATTTGCTGTA  ATTCACTATA

1051  ATGATATAAC  AGCTATCCTG  GAGTATTCCT  GTGTCTAATT  TCATGCTGGT

1101  AAAGCTCTGG  TTATGGTACA  ACAAAGATGA  GGTAATTATT  ACAACATCCT

1151  GCACATACTG  GGGTATCTGT  GGCATCCTTG  GTACATCAGT  CCTGAAACGA

1201  AGCCAATATC  TACAGTAGCT  TTGAGATGCG  TAGGCGAGGG  TAATTCTTTT

1251  ATGCTACTGA  GGTGGTACTG  TGTGGTCATT  CTTTGTGATC  TCCTGATGTT

1301  GCGATGCACA  CCCACAAACA  CACATTTGTA  CACATATATT  AATCATCAGG
```

```
1351   GCCATTATTA   GCTCACAACA   TTATCCTATC   CTTCCTTTCT   TCAATAACCT

1401   CTCCGAGTTT   GAAGAGTCCA   TGGCGATGAT   TTGCGGGGTT   TATACCTGTG

1451   ATTAAAGCGC   ACACAAAAAA   TGATATTGTG   GAAAATAACA   TGTCTTGTGA

1501   TCGAGCATGG   CCAGCTGTAT   AACTGTAAGA   AGGATTAGAA   CTGTGAATCA

1551   TCCTTAAGAA   AAAAAAAAAA   AAAAAAAAAG   CTAAATAAAT   GCAATCTGCC

1601   CAAGAGGGAG   GAAATGAATA   CCTATAAACC   ACAACTTCTA   TCCAATCACA

1651   TACAGACAAA   TCAGCCTTCA   GACCAATCAA   ACGTCTTCAT   TTAAAGCTTA

1701   CCTGGACTTG   GCATACTGCC   CAGCTTTTCC   AAAACTACTC   ACAATAATAC

1751   CTTCAACAAC   AGTTAAAAAA   CGCTGGTACT   CAAACAAAAT   CAACAGCCTT

1801   TTCAACGACT   GCTTTAAAAA   AGACCAAACA   AACAAACAAG   GAACGTCTTA

1851   ACCCAGAGAA   GACAATTGCT   TGGGAGAGGA   AAAGTTTGCT   TCTGAGTTAG

1901   CAGCCTGTGG   AAACAGGATT   AGTGGGTGGG   ATTGGGGTGT   GCTCTGCCCA

1951   TAAATACAGG   CTCAGCGCTG   CGCTGGCACA   CTGAGAAACT   TGGACGGCAA

2001   CCCTTGCGGC   TCACACAAAG   CAGGAGGGTG   GGAAGCCCAG   GTAAGGCAAT
```

FIG. 8